ABSTRACT

An IV line temperature controlled warming device includes a housing and a fluid cassette or cartridge that receives fluid from an IV line and includes intravenous line tubing arranged in a preformed configuration. The configuration includes tubing sections arranged in generally circular and concentric portions and a central serpentine tubing section that basically reverses fluid flow and facilitates flow in opposing directions within adjacent tubing sections. The fluid cassette is retained within the device on a base plate partially disposed within a device housing interior, while a housing cover is selectively opened and closed to permit access to the base plate. The base plate includes a heater plate disposed thereon, while the cover and heater plate each include heating elements to apply heat to opposing surfaces of the tubing cassette. The heating elements are controlled by a controller in response to measured temperatures of the heater plate and fluid.